

1) If $f(x) = 3x$ and $g(x) = -2x^2$ then $f \circ g(-3)$ equals -54.

$g(-3) = 3(-3) = -9$
 $f(-9) = -2(-9)^2 = -162$
 $f(g(-3)) = -162$

2) Solve the system:

$$\begin{cases} -3x + 2y = 5 \\ 9x + 4y = 25 \end{cases}$$

$$\begin{array}{r} -3x + 2y = 5 \\ 9x + 4y = 25 \\ \hline 15x = 15 \\ x = 1 \\ y = 4 \end{array}$$

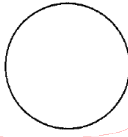
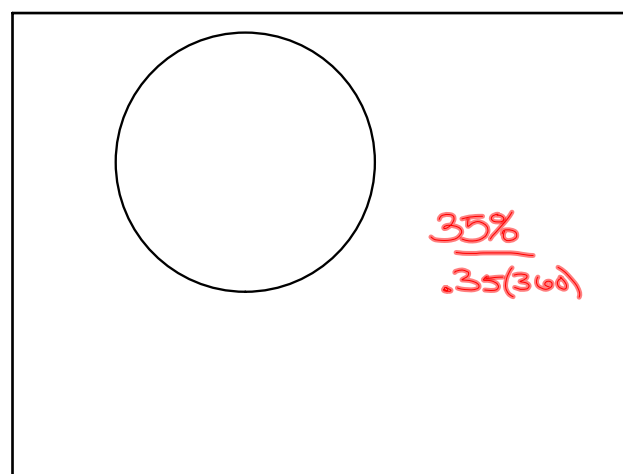
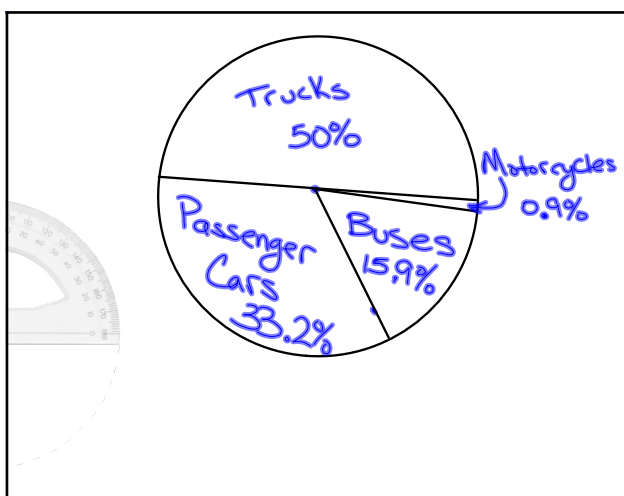
$(1, 4)$

$9(1) + 4y = 25$
 $9 + 4y = 25$
 $4y = 16$
 $y = 4$

5. Make a circle graph for the data.

Motor Vehicle Registration by Type, 1994			
Passenger cars	Motorcycles	Buses	Trucks
33.2%	0.9%	15.9%	50%

$.332(360) = 119.52^\circ$
 $.009(360) = 3.24^\circ$
 $.159(360) = 57.24^\circ$
 $.50(360) = 180^\circ$

HW

Finish your Circle Graphs